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Search	Most Recent Queries	Time	Result
	#38 Search chlorin e6 trimethyl ester	12:37:45	3
	#32 Search purpurinimide	12:30:37	5
	#33 Search #32 and #20	12:25:13	4
	#28 Search #26 and #20	12:16:54	4
	#27 Search purpurin-18	11:56:52	9
	#26 Search purpurin 18	11:56:37	9
	#25 Search #24 and #20	11:56:22	13
	#24 Search purpurin	11:56:06	82
	#21 Search #20 and #17	11:55:30	2
	#20 Search #19 or #2	11:53:29	539910
	#19 Search preparation	11:53:16	151475
	#17 Search methyl pheophorbide a	11:51:00	9
	#16 Search pheophorbide a	11:50:50	92
	#15 Search pheophorbide	11:50:41	125
	#3 Search #1 and #2	10:36:12	17
	#2 Search synthesis	10:19:27	400022
	#1 Search pyropheophorbide	10:19:02	65

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Jan 24 2005 13:04:36

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: sssptamlf1623

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

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STN Columbus

FILED 11:22:37 25 JAN 2005

-> file registry

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.42	0.42

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:23:41 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

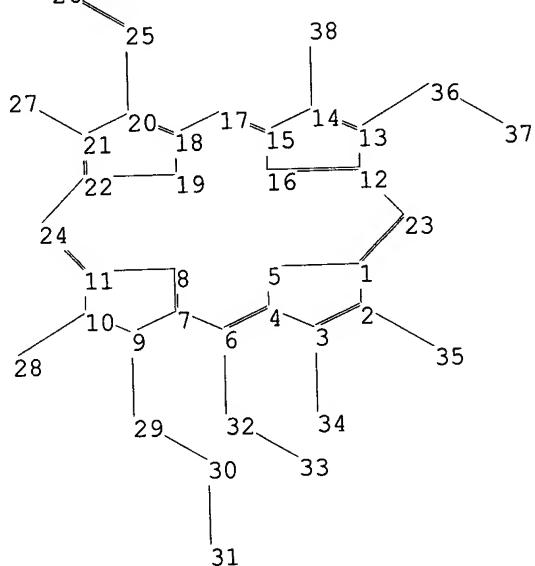
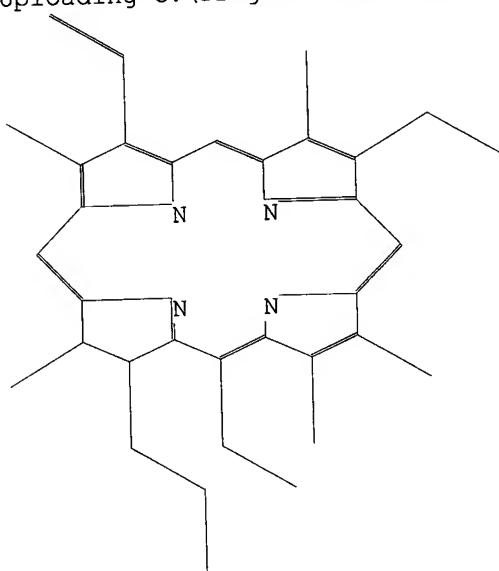
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474.str



chain nodes :
25 26 27 28 29 30 31 32 33 34 35 36 37 38
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24
chain bonds :
2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
32-33 36-37

```

ring bonds :
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24
exact/norm bonds :
1-5 4-5 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22
exact bonds :
2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
32-33 36-37
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:Atom
29:Atom 30:Atom 31:Atom 32:CLASS 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
38:Atom

```

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full
 FULL SEARCH INITIATED 11:24:14 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1197 TO ITERATE

519 ANSWERS

100.0% PROCESSED 1197 ITERATIONS
 SEARCH TIME: 00.00.01

L3 519 SEA SSS FUL L1

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.75

FILE 'REGISTRY' ENTERED AT 11:24:30 ON 25 JAN 2005
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 provided by InfoChem.

STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
 DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> scan 13
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):end
```

FILE 'CASREACT' ENTERED AT 11:25:06 ON 25 JAN 2005
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FILE CONTENT: 1840 - 23 Jan 2005 VOL 142 ISS 4

```
*****  
*  
*      CASREACT now has more than 8 million reactions  
*  
*****
```

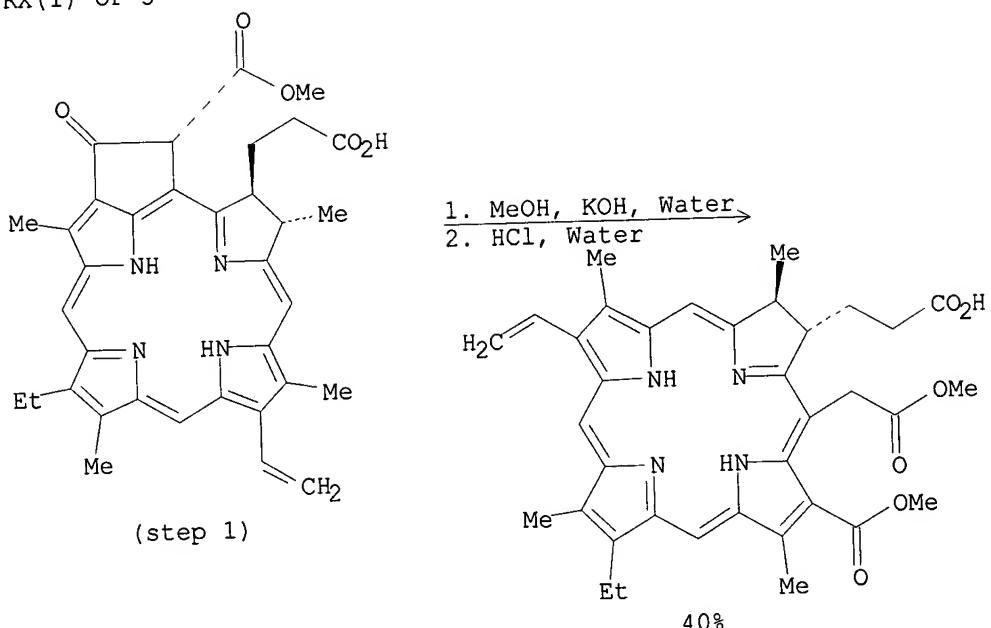
Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 12 sss full
FULL SEARCH INITIATED 11:25:16 FILE 'CASREACT'
SCREENING COMPLETE -      342 REACTIONS TO VERIFY FROM      47 DOCUMENTS
100.0% DONE      342 VERIFIED      84 HIT RXNS      14 DOCS
SEARCH TIME: 00.00.01
I4          14 SEA SSS FUL L1 (      84 REACTIONS)
```

=> d 14 1-14
14 ANSWER 1 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

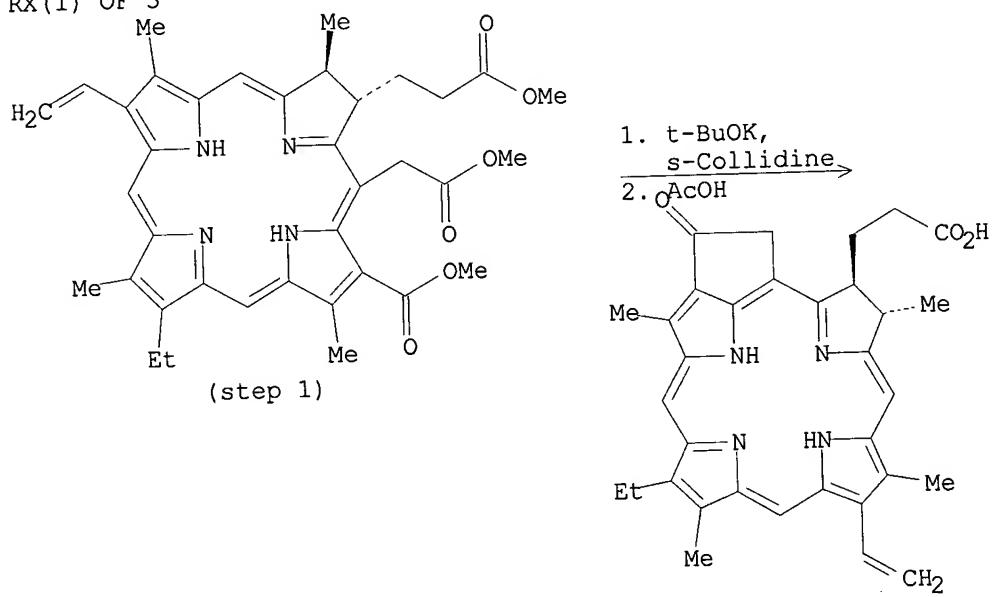
RX(1) OF 5



REF: Zhongguo Yi Yao Gongye Zazhi, 34(8), 371-372; 2003

L4 ANSWER 2 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

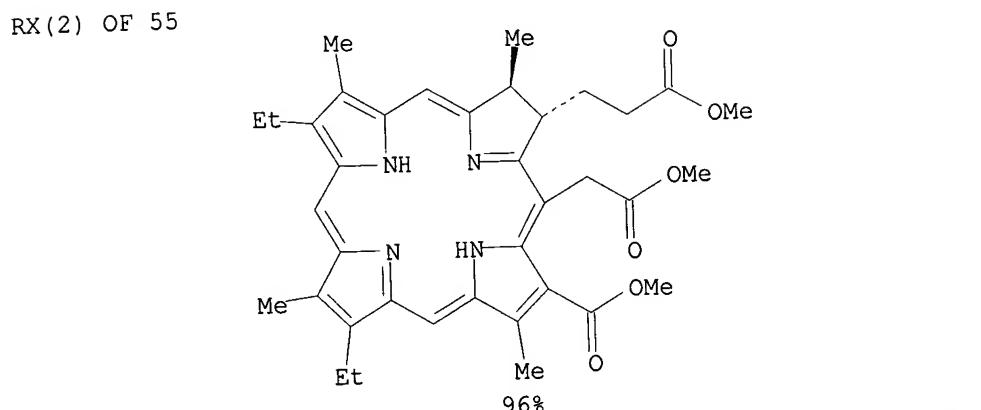
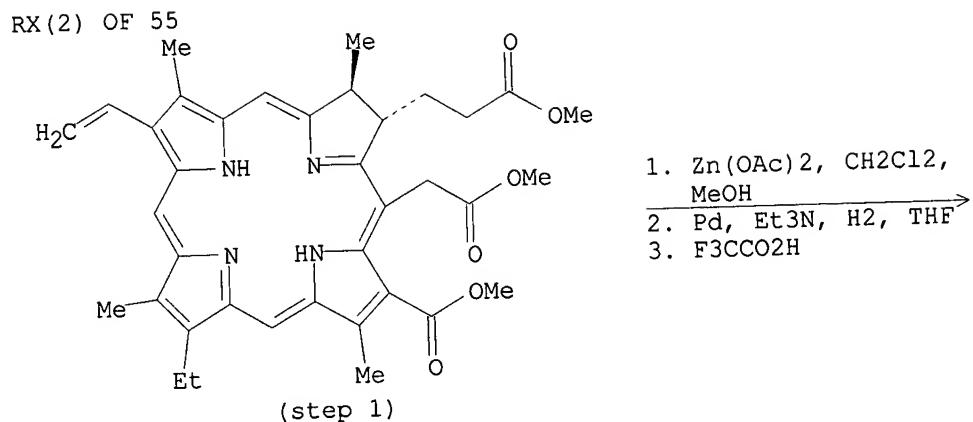
RX(1) OF 3



REF: Organic Process Research & Development, 8(2), 287-290; 2004

NOTE: third stage thermal

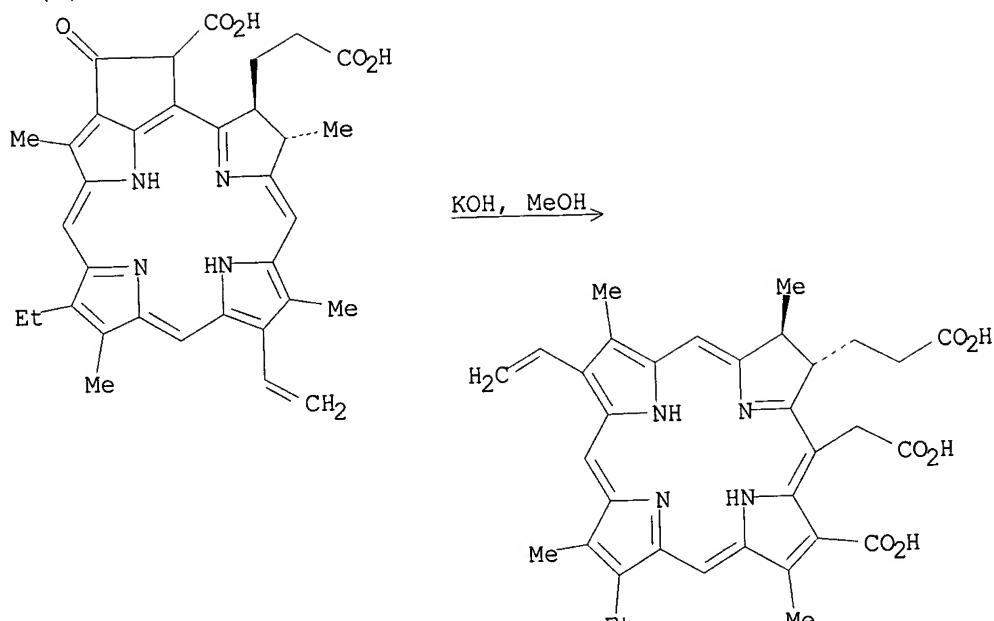
L4 ANSWER 3 OF 14 CASREACT COPYRIGHT 2005 ACS on STN



REF: Journal of Medicinal Chemistry, 46(25), 5349-5359; 2003

L4 ANSWER 4 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 10



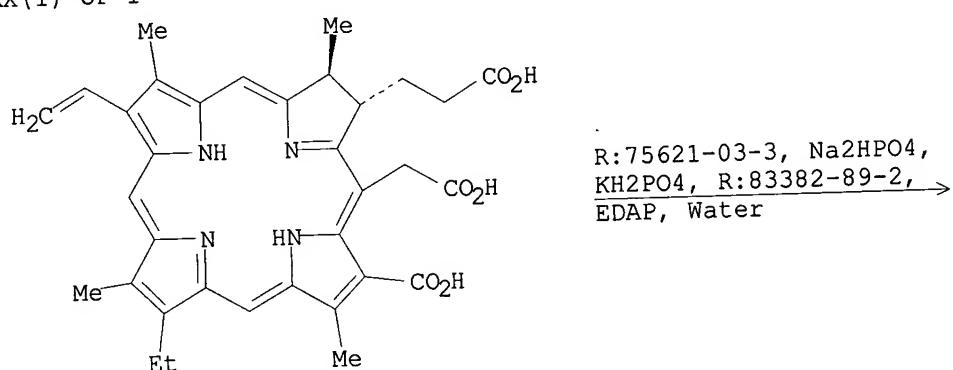
REF: Khimiya Rastitel'nogo Syr'ya, (2), 85-88; 2002

L4 ANSWER 5 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

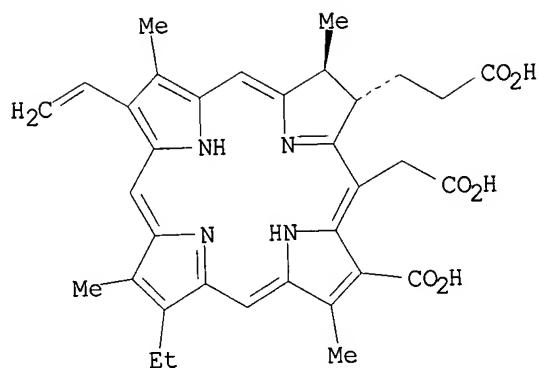
RX(1) OF 15 - REACTION DIAGRAM NOT AVAILABLE

L4 ANSWER 6 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 1



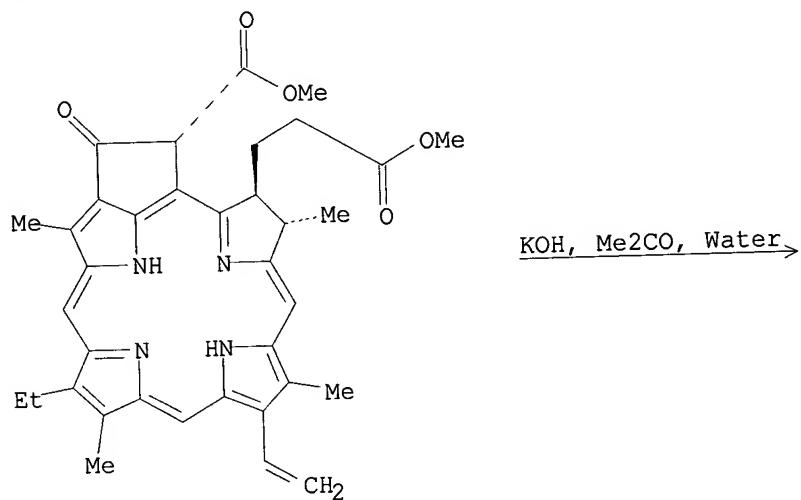
RX(1) OF 1



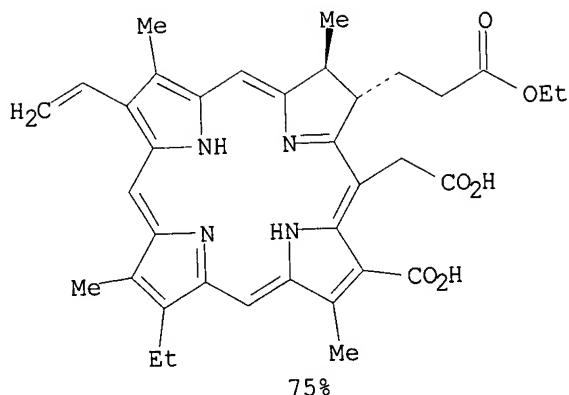
REF: Breast Cancer Research and Treatment, 72(2), 117-130; 2002
NOTE: biotransformation, iron-satd. human transferrin used, described
medium

L4 ANSWER 7 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 72



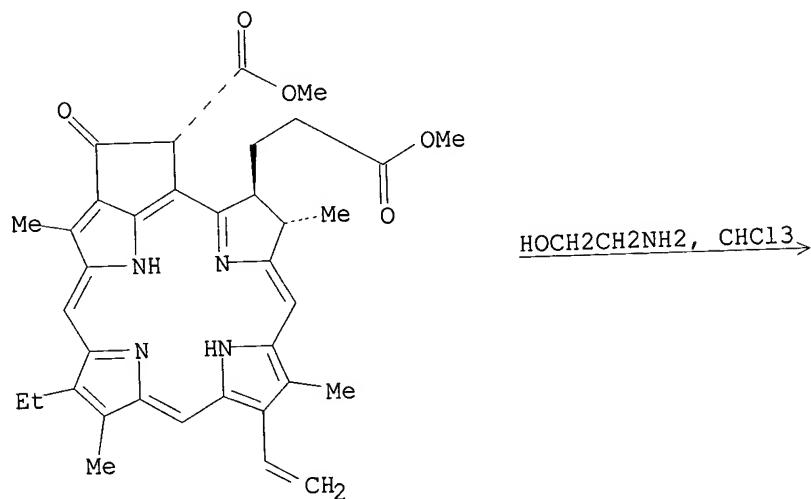
RX(1) OF 72



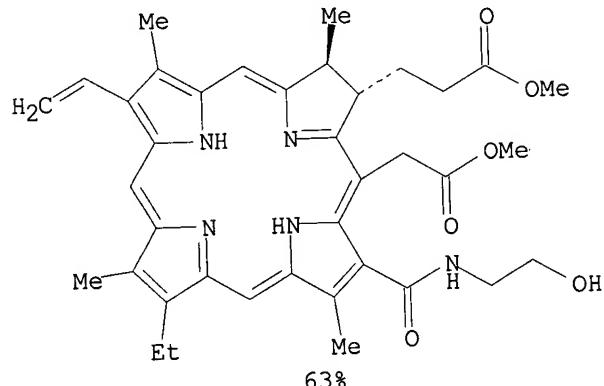
REF: PCT Int. Appl., 2002098882, 12 Dec 2002

L4 ANSWER 8 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 3

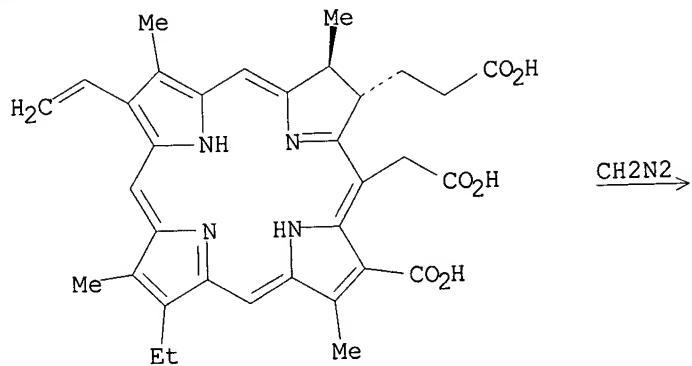


RX(1) OF 3

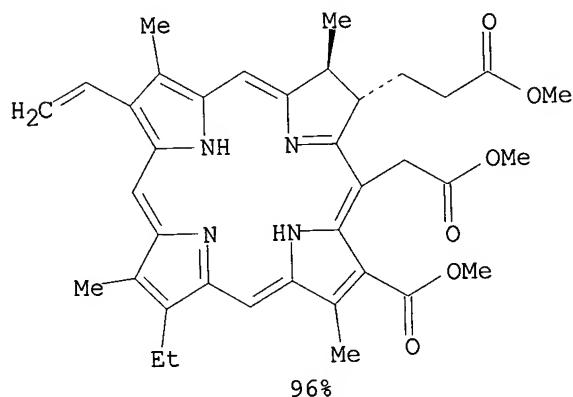


REF: Mendeleev Communications, (2), 77-78; 2002

RX(1) OF 16

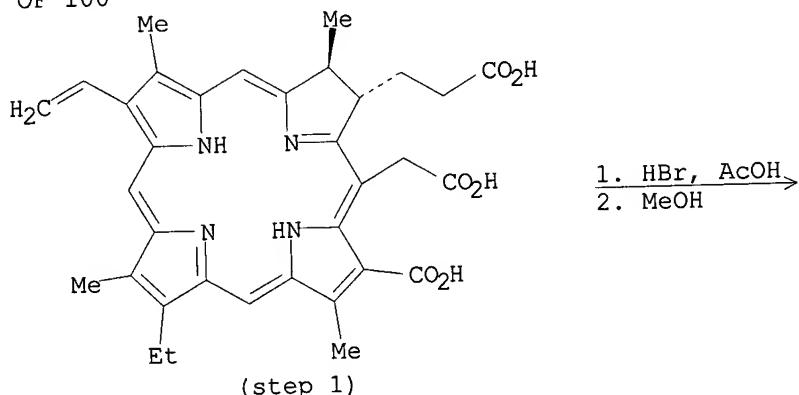


RX(1) OF 16

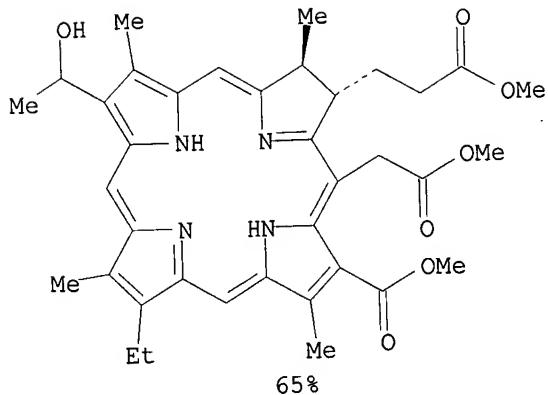


REF: Bioorganic & Medicinal Chemistry, 10(3), 583-591; 2002

RX(28) OF 100



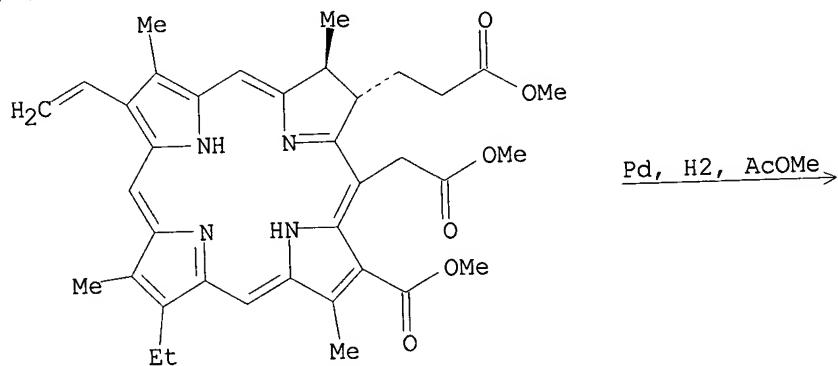
RX(28) OF 100



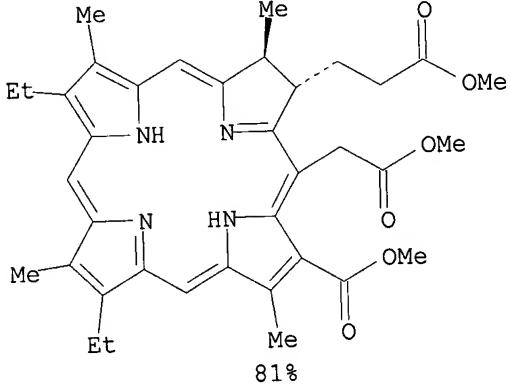
REF: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii), 37(2), 191-201, 2001

L4 ANSWER 11 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(5) OF 38



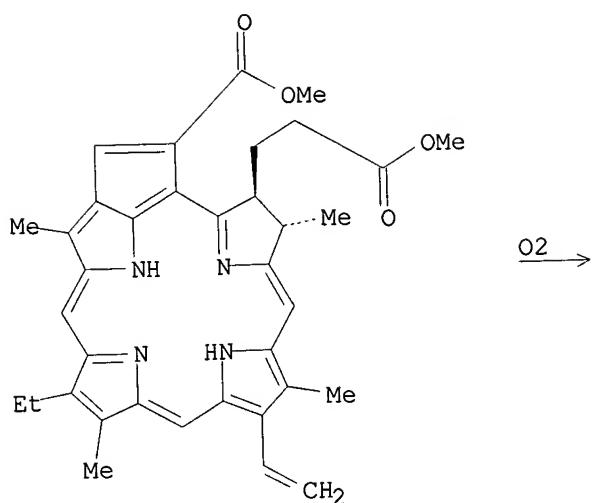
RX(5) OF 38



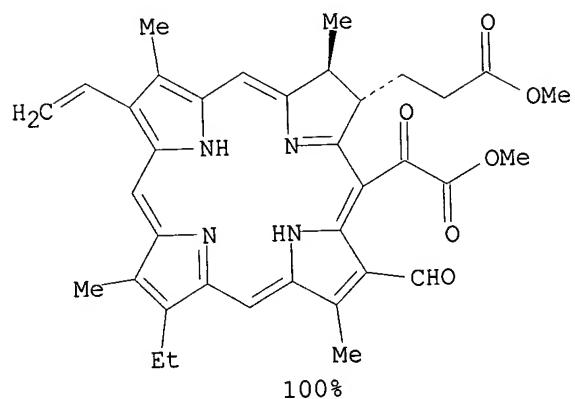
REF: Journal of Organic Chemistry, 63(7), 2314-2320, 1998

L4 ANSWER 12 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 6



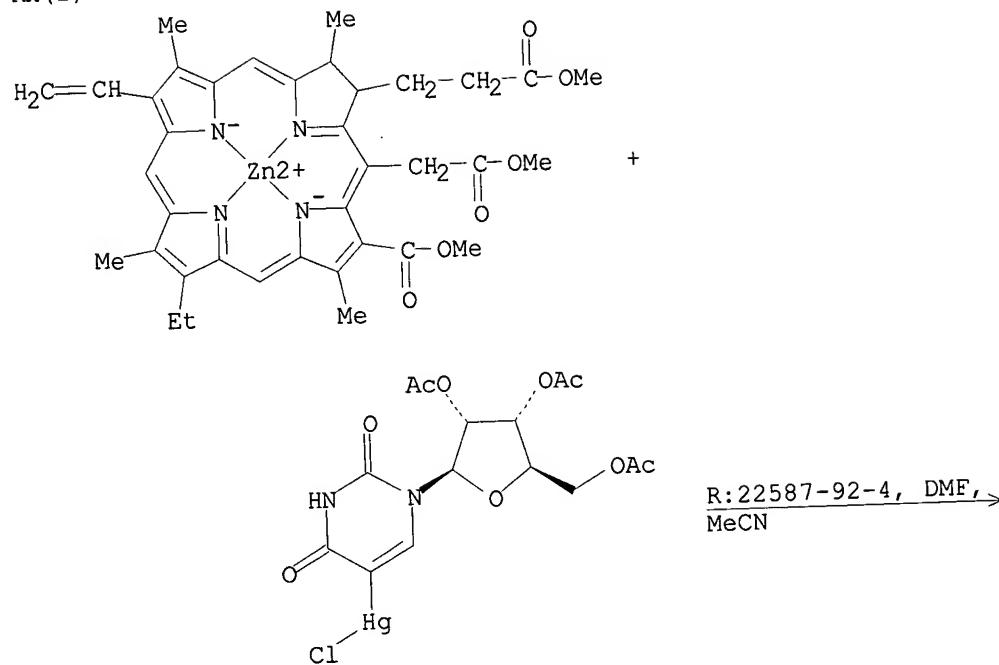
RX(2) OF 6



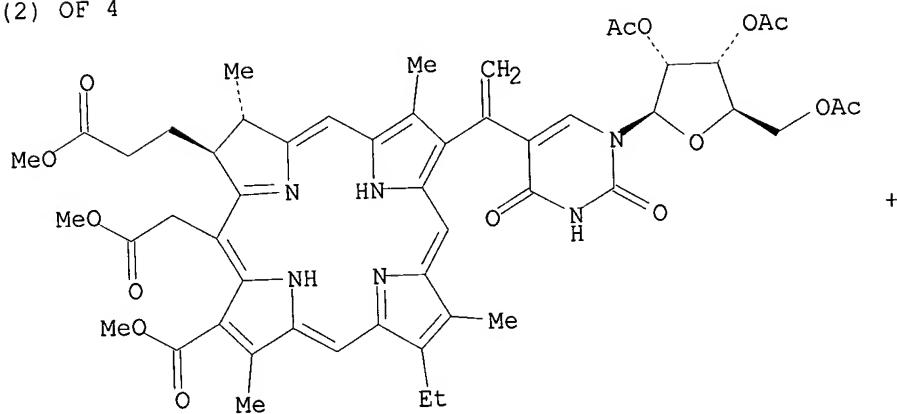
REF: Tetrahedron Letters, 36(43), 7791-4; 1995
NOTE: PHOTOCHEM.

L4 ANSWER 13 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

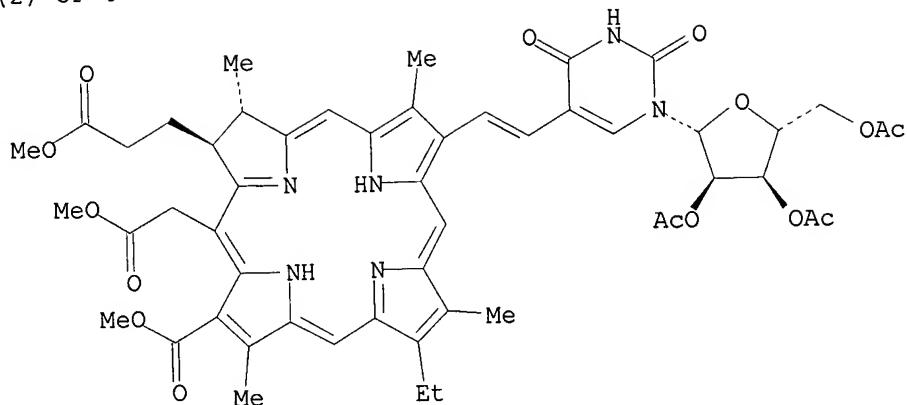
RX (2) OF 4



RX (2) OF 4



RX(2) OF 4

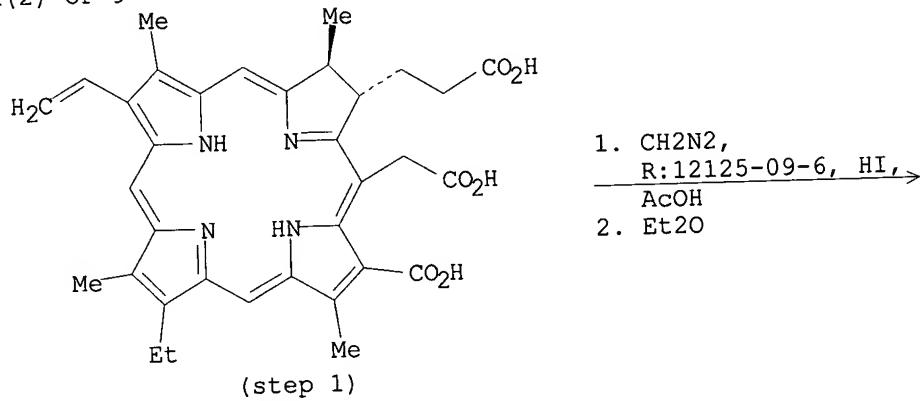


REF: Tetrahedron Letters, 36(3), 365-8; 1995

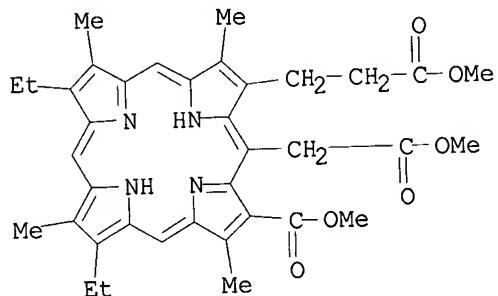
NOTE: 40% OVERALL (2.2:1, TRANS:GEM)

L4 ANSWER 14 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 9



RX(2) OF 9



REF: Liebigs Annalen der Chemie, (9), 835-40; 1990

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE
ENTRY
142.10
TOTAL
SESSION
304.28

FILE 'REGISTRY' ENTERED AT 11:27:01 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSGA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINTD: sssptamlf1623

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS EXPRESS · JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:48:11 ON 25 JAN 2005

```
=> file resitry
'RESITRY' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HOME'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
```

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:48:28 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TECHNICAL INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

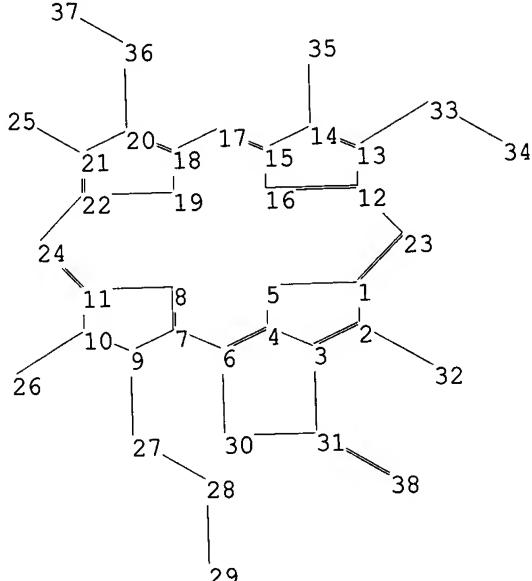
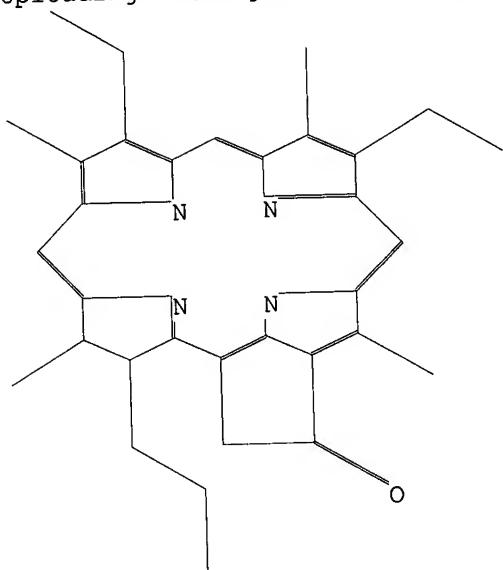
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

⇒

Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474b.str



chain nodes :
25 26 27 28 29 32 33 34 35 36 37 38
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 30 31
chain bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 31-38 33-34 36-37
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 31-38 33-34 36-37
ring bonds :
1-2 1-5 1-23 2-3 3-4 3-31 4-5 4-6 4-6 6-7 6-30 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 30-31
exact/norm bonds :
1-5 3-31 4-5 6-30 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 30-31
31-38
exact bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 33-34 36-37
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 33-34 36-37
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:Atom
29:Atom 30:CLASS 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:CLASS 37:CLASS
38:CLASS

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full
FULL SEARCH INITIATED 11:49:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4822 TO ITERATE

100.0% PROCESSED 4822 ITERATIONS
SEARCH TIME: 00.00.01

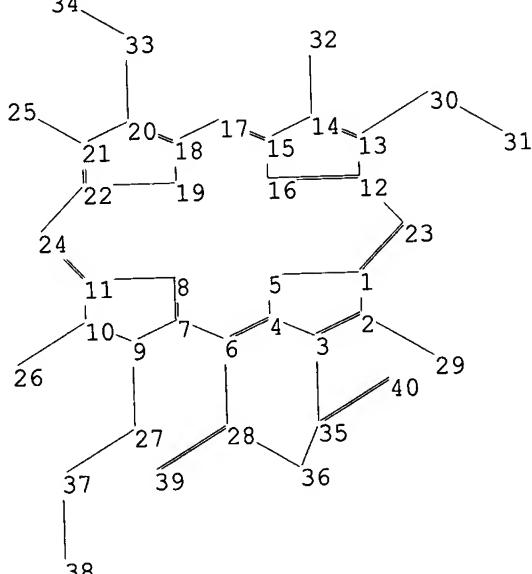
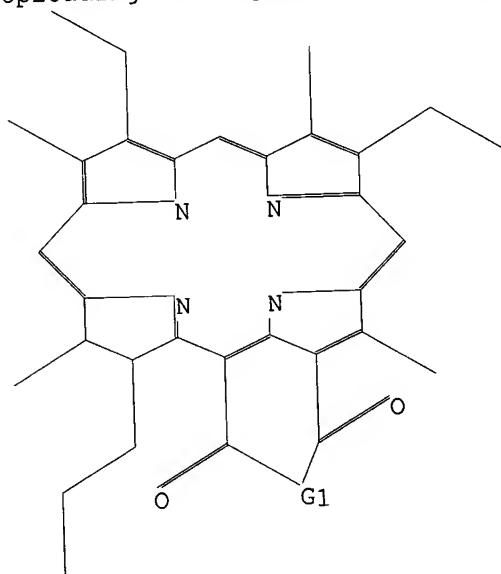
791 ANSWERS

L3 791 SEA SSS FUL L1

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474c.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36
chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 35-40
37-38
ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36
exact/norm bonds :
1-5 2-29 3-35 4-5 6-28 7-9 9-10 9-27 10-11 10-26 12-13 13-14 13-30
14-15 14-32 18-19 19-22 20-33 21-25 27-37 28-36 28-39 30-31 33-34 35-36
35-40 37-38
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O, N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS

L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 15 sss full
FULL SEARCH INITIATED 11:49:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 384 TO ITERATE

100.0% PROCESSED 384 ITERATIONS
SEARCH TIME: 00.00.01

103 ANSWERS

1.6 103 SEA SSS FUL L4

FILE REGISTRY COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	322.66	322.87

FILE 'REGISTRY' ENTERED AT 11:49:38 ON 25 JAN 2005
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ALL INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINTID: sssptamlf1623

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within

STN Express with Discover!

NEWS 4 OCT 28 KOREAPAT now available on STN

NEWS 5 NOV 30 PHAR reloaded with additional data

NEWS 6 DEC 01 LISA now available on STN

NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004

NEWS 8 DEC 15 MEDLINE update schedule for December 2004

NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB

NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN

NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED

NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005

NEWS 17 JAN 11 CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 13:36:00 ON 25 JAN 2005

	SINCE FILE ENTRY	TOTAL SESSION
=> file registry COST IN U.S. DOLLARS		
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:36:05 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TCCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

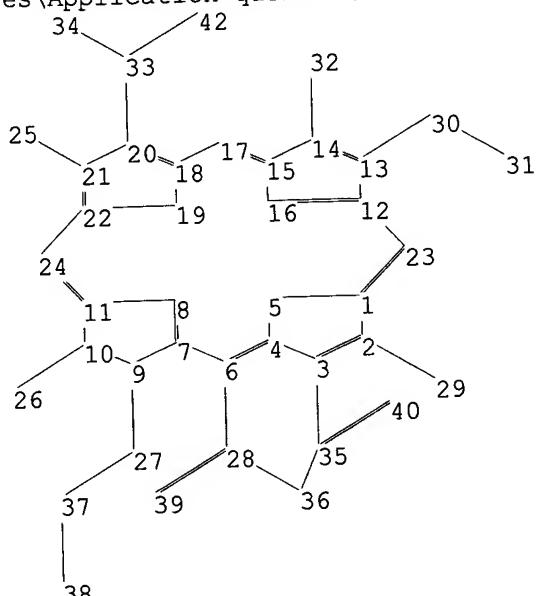
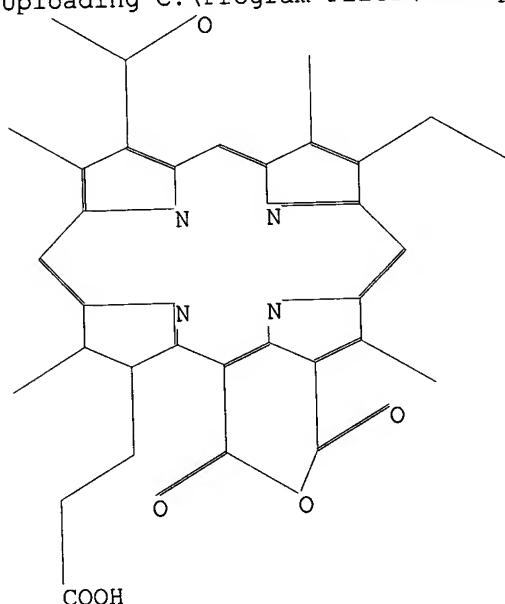
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 2076

L1 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474d.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40 42
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36
chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 33-42
35-40 37-38
ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36
exact/norm bonds :
1-5 3-35 4-5 6-28 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 28-36
28-39 33-42 35-36 35-40
exact bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 30-31 33-34 37-38
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS 42:CLASS

L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

=> s 12 sss full
FULL SEARCH INITIATED 13:36:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 541 TO ITERATE

100.0% PROCESSED 541 ITERATIONS
SEARCH TIME: 00.00.01

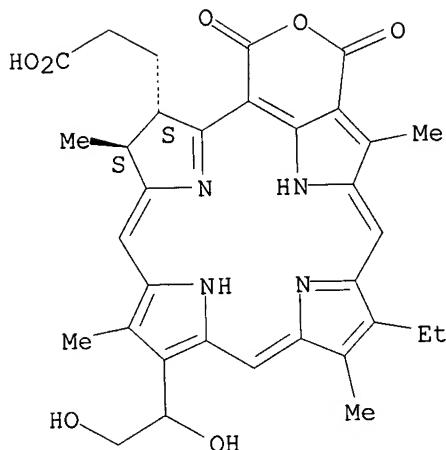
3 ANSWERS

L4 3 SEA SSS FUL L2

=> d 14

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 179185-48-9 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-
1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-
dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20
anhydride
FS STEREOSEARCH
MF C33 H34 N4 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



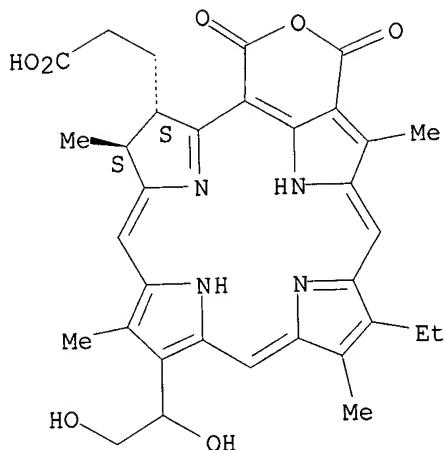
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 14 1-3

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 179185-48-9 REGISTRY
 CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20 anhydride
 FS STEREOSEARCH
 MF C33 H34 N4 O7
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)

Absolute stereochemistry.



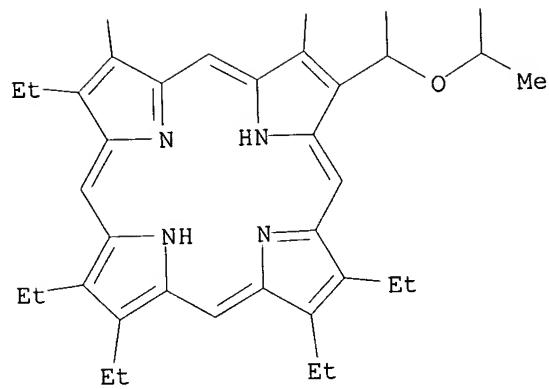
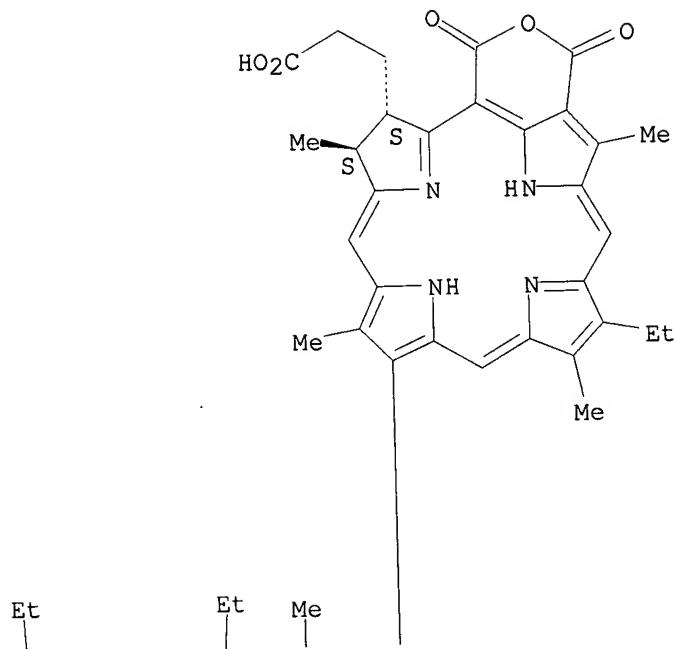
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 MM
 RN 166663-14-5 REGISTRY
 CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitriolopyrano[4,3-
 b]azacyclononadecine-16-propanoic acid, 5-ethyl-10-[1-[1-
 (3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethoxy]-
 1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-12-[1-
 [1-(3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethyl]-17,18-
 dihydro-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride
 FS STEREOSEARCH
 MF C69 H78 N8 O6
 SR CA
 LC STN Files: CA, CAPLUS
 DT CA CAplus document type: Journal
 RL NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



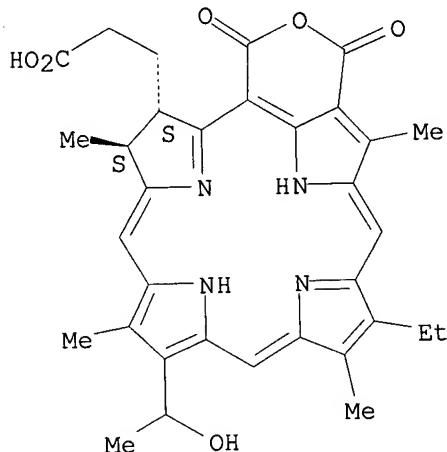
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 166663-13-4 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 5-ethyl-1,16,18,20-tetrahydro-10-
(1-hydroxyethyl)-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)- (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-17,18-
dihydro-12-(1-hydroxyethyl)-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride
FS STEREOSEARCH
MF C33 H34 N4 O6

SR CA
LC STN Files: CA, CAPLUS
DT CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	169.12	169.33

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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L5 1 179185-48-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	169.84

FILE 'CAPLUS' ENTERED AT 13:37:20 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5

L6 1 L5

=> DIS L6 1
THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering (1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities), 23-32

CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal
LA English

FILE 'STNGUIDE' ENTERED AT 13:37:39 ON 25 JAN 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 21, 2005 (20050121/UP).

FILE 'CAPLUS' ENTERED AT 13:39:42 ON 25 JAN 2005
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FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

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=> FTI REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	172.02

FILE 'REGISTRY' ENTERED AT 13:39:53 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TEGCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 3 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L7 1 166663-13-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	172.53

FILE 'CAPLUS' ENTERED AT 13:39:58 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L7

L8 2 L7

=> DIS L8 1
THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin
photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering
(1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities),
23-32
PB CODEN: PSISDG; ISSN: 0277-786X
DT SPIE-The International Society for Optical Engineering
LA English

=> FIL STNGUIDE
COST IN U.S. DOLLARS
FILL, ESTIMATED COST
SINCE FILE ENTRY 1.55
TOTAL SESSION 174.08

FILE 'STNGUIDE' ENTERED AT 13:40:47 ON 25 JAN 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 21, 2005 (20050121/UP).

=> FIL CAPLUS
COST IN U.S. DOLLARS
FILL ESTIMATED COST
SINCE FILE ENTRY 0.18
TOTAL SESSION 174.26

FILE 'CAPLUS' ENTERED AT 13:42:28 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

三>